Abstract

A system and method decreases the transmission of structure-borne noise by cooling fans to electronic components and structurally integrated enclosures for the electronic components. The system has a machined isolation plate that fits onto a rear plate on the structurally integrated enclosure. The cooling fans are fitted onto the opposite side of the isolation plate. Fitted between the isolation plate and the rear plate, and/or the isolation plate and the cooling fans are soft elastomeric isolators. These isolators dampen and prevent the transmission of structure-borne noise from the cooling fans to the electronic components and the structurally integrated enclosure. This dampening is advantageous on platforms in which stealth is desired, such as on submarines.